

1. A method of identifying a polypeptide comprising a domain of interest, comprising:

- (a) contacting a multivalent recognition unit complex with a plurality of polypeptides from a cDNA expression library, in which the recognition units are peptides having in the range of 6 to 60 amino acid residues and which selectively bind a domain of interest; and
- (b) identifying a polypeptide having a selective binding affinity for said recognition unit complex;

wherein the binding specificity of the recognition units has been decreased by incorporating said recognition unit into said multivalent recognition unit complex.

42. A method of identifying a polypeptide comprising a domain of interest, comprising:

- (a) contacting a multivalent recognition unit complex, which complex comprises
  - (i) avidin or streptavidin, and
  - (ii) biotinylated recognition units,with a plurality of polypeptides from a cDNA expression library, in which the recognition units are peptides having in the range of 6 to 60 amino acid residues and which selectively bind a domain of interest; and
- (b) identifying a polypeptide having a selective binding affinity for said recognition unit complex;

wherein the binding specificity of the recognition units has been decreased by incorporating said recognition units into said multivalent recognition unit complex.

103. The method of claim 1, wherein the multivalent recognition unit complex comprises a complex selected from the group consisting of: (a) biotinylated recognition units and avidin or streptavidin, (b) recognition units in the form of multiple antigenic peptides, or (c) recognition units cross-linked to a carrier protein.

104. The method of any one of claims 1, 42, or 103 in which said plurality of polypeptides is obtained from a virus.

105. The method of any one of claims 1, 42, or 103 in which said expression library is a recombinant bacteriophage library.

106. The method of claim 105 in which said expression library is a recombinant M13 library.

107. The method of any one of claims 1, 42, or 103 in which said expression library is a recombinant plasmid or cosmid library.

108. The method of any one of claims 1, 42, or 103 in which said recognition unit is a peptide having 20 to 50 amino acid residues.

109. The method of claim 1 or claim 103 in which the valency of the recognition unit in the complex is at least four.

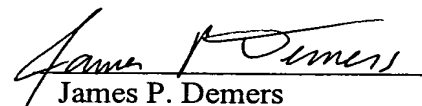
A marked-up copy of the first paragraph, and marked-up copies of amended claims 1 and 42, showing the changes made, are appended hereto. Applicants submit that the amendments add no new matter, and respectfully request entry thereof.

Claims 2-41 and 43-102 have been cancelled without prejudice, and applicants reserve the right to prosecute the cancelled claims in this or in subsequent related applications. Upon entry of the present amendments, claims 1, 42, and 103-109 will be pending.

Respectfully submitted,  
Morgan & Finnegan, L.L.P.

Dated: June 13, 2001

By

  
James P. Demers  
Registration No. 34,320

Mailing Address:

MORGAN & FINNEGAN, L.L.P.  
345 Park Ave.  
New York, NY 10154  
(212) 758-4800  
(212) 751-6849 Facsimile



## APPENDIX TO PRELIMINARY AMENDMENT

*Amended first paragraph, showing changes made:*

This application is a divisional of co-pending U.S. patent application Serial No. 08/630,915 filed April 3, 1996, which is a continuation-in-part of [co-pending] abandoned U.S. Patent Application Serial No. 08/417,872 filed April 7, 1995, the entire contents of which are incorporated herein by reference.

*Amended claims, showing changes made:*

1. (Amended) A method of identifying a polypeptide comprising a functional domain of interest, comprising:
  - (a) contacting a multivalent recognition unit complex with a plurality of polypeptides from a cDNA expression library, in which the recognition units are peptides having in the range of 6 to 60 amino acid residues and which selectively bind a domain of interest; and
  - (b) identifying a polypeptide having a selective binding affinity for said recognition unit complex;wherein the binding specificity of the recognition units has been decreased by incorporating said recognition unit into said multivalent recognition unit complex.
  
42. (Amended) A method of identifying a polypeptide comprising [an SH3] a domain of interest, comprising:
  - (a) contacting a multivalent recognition unit complex, which complex comprises
    - (i) avidin or streptavidin, and
    - (ii) biotinylated recognition units,with a plurality of polypeptides from a cDNA expression library, in which the recognition [unit is a peptide] units are peptides having in the range of 6 to 60 amino acid residues and which selectively [binds an SH3] bind a domain of interest; and
  - (b) identifying a polypeptide having a selective binding affinity for said recognition unit complex;wherein the binding specificity of the recognition units has been decreased by incorporating said recognition units into said multivalent recognition unit complex.